

Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility/Project Name Tower Standard	Local Grid Location of Well Feet S. Feet W. Feet N. Feet E	Well Name MW-16
Facility License Permit or Monitoring Number	Grid Origin Location	Wis. Unique Well Number DNR Well Number
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 2	Section Location of Waste/Source <input checked="" type="checkbox"/> E	Date Well Installed 11/2/15
Distance Well Is From Waste/Source Boundary Ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Well Installed By (Person's Name and Firm) PSI - Joe Black
Is Well A Point of Enforcement Std. Application <input type="checkbox"/> Yes <input type="checkbox"/> No		

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom .5 ft. MSL or _____ ft.

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

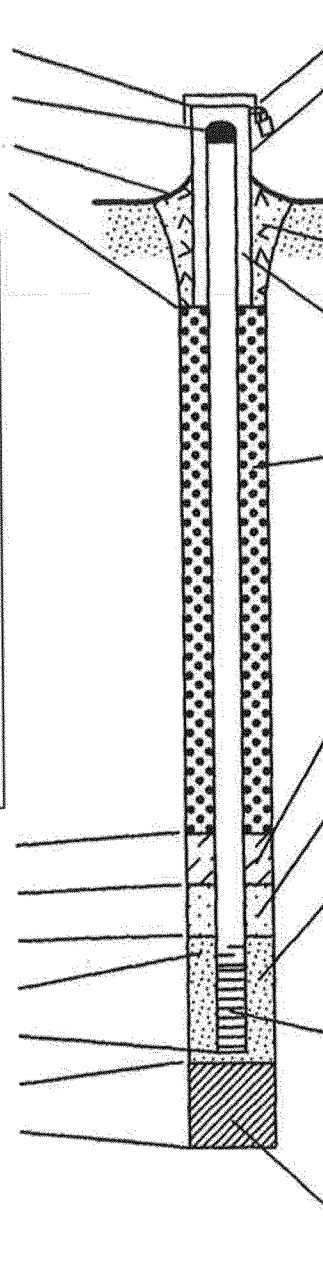
14. Drilling method used Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis):

E. Bentonite seal, top _____ ft. MSL or 0.00 ft.
F. Fine sand, top _____ ft. MSL or 0.50 ft.
G. Filter pack, top _____ ft. MSL or 0.9 ft.
H. Screen joint, top _____ ft. MSL or 1.40 ft.
I. Well bottom _____ ft. MSL or 11.40 ft.
J. Filter pack, bottom _____ ft. MSL or 11.40 ft.
K. Borehole, bottom _____ ft. MSL or 11.40 ft.
L. Borehole, diameter 8 in.
M. O.D. well casing 2.1 in.
N. I.D. well casing 1.9 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☒ 04
Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30
Concrete ☒ 01
Other ☐
4. Material between well casing and protective pipe: Bentonite ☒ 30
Annular space seal ☐
Other ☐
5. Annular space seal: a. Granular Bentonite ☒ 33
b. _____ lbs/gal mud weight Bentonite-sand slurry ☐ 35
c. _____ lbs/gal mud weight Bentonite slurry ☐ 31
d. _____ % Bentonite Bentonite-cement grout ☐ 50
e. 0.164 ft³ Volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☒ 08
6. Bentonite seal: a. Bentonite Granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32
c. _____ Other ☐
7. Fine sand material Manufacturer, product name and mesh size
a. #60 Red Flint
b. Volume added 0.131 ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. #30 Red Flint
b. Volume added 3.27 ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer U.S. Filter
c. Slot size: _____ in.
d. Slotted length: 10 ft.
11. Backfill material (below filter Pack): None ☒ 14
Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature

Firm

REI Engineering, Inc.
4080 N. 20th Ave.
Wausau, WI 54401

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160 Wis. Stats. and ch. NR 141, Wis. Ad. Code. In accordance with ch. 144 Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147 Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. see instructions for more information including where the completed form should be sent.

Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility/Project Name Tower Standard	Local Grid Location of Well Feet S. Feet W. Feet N. Feet E	Well Name MW-16 at 40-45ft
Facility License Permit or Monitoring Number	Grid Origin Location	Wis. Unique Well Number DNR Well Number
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	Section Location of Waste/Source <input checked="" type="checkbox"/> E	Date Well Installed 11/3/15
Distance Well Is From Waste/Source Boundary Ft.	SE 1/4 of SW 1/4 of Sec. 30, T. 40 N, R. 05 <input type="checkbox"/> W	Well Installed By (Person's Name and Firm) GESTRA - Bryan
Is Well A Point of Enforcement Std. Application <input type="checkbox"/> Yes <input type="checkbox"/> No	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☒ Yes ☐ No
Describe 150 Gallons of Water Added

17. Source of water (attach analysis):
City of Milwaukee

E. Bentonite seal, top _____ ft. MSL or 1.00 ft.
F. Fine sand, top _____ ft. MSL or 31.5 ft.
G. Filter pack, top _____ ft. MSL or _____ ft.
H. Screen joint, top _____ ft. MSL or 37.00 ft.
I. Well bottom _____ ft. MSL or 42.00 ft.
J. Filter pack, bottom _____ ft. MSL or 45.00 ft.
K. Borehole, bottom _____ ft. MSL or 45.00 ft.
L. Borehole, diameter 8 in.
M. O.D. well casing 2.1 in.
N. I.D. well casing 1.9 in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☒ 04
Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30
Concrete ☒ 01
Other ☐
4. Material between well casing and protective pipe: Bentonite ☒ 30
Annular space seal ☐
2 bags Other ☐
5. Annular space seal: a. Granular Bentonite ☐ 33
b. _____ Lbs/gal mud weight Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight Bentonite slurry ☐ 31
d. 5 % Bentonite Bentonite-cement grout ☒ 50
e. 8.69 ft³ Volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☒ 02
Gravity ☐ 08
6. Bentonite seal: a. Bentonite Granules ☐ 33
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 32
c. Bentonite Grout Other ☒
7. Fine sand material Manufacturer, product name and mesh size
a. _____
b. Volume added 0.0 ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. _____
b. Volume added 0.0 ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer Johnson Screen
c. Slot size: _____ in.
d. Slotted length: 5 ft.
11. Backfill material (below filter Pack): None ☒ 14
Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature

Firm

REI Engineering, Inc.
4080 N. 20th Ave.
Wausau, WI 54401

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Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility/Project Name Tower Standard	Local Grid Location of Well Feet S. ___ Feet W. ___ Feet N. ___ Feet E. ___	Well Name MW-17
Facility License Permit or Monitoring Number	Grid Origin Location	Wis. Unique Well Number DNR Well Number
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	Section Location of Waste/Source <input checked="" type="checkbox"/> E	Date Well Installed 11/2/15
Distance Well Is From Waste/Source Boundary Ft.	SE 1/4 of SW 1/4 of Sec. 30, T. 40 N., R. 05 <input type="checkbox"/> W	Well Installed By (Person's Name and Firm) PSI - Joe Black
Is Well A Point of Enforcement Std. Application <input type="checkbox"/> Yes <input type="checkbox"/> No	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No

Describe _____

17. Source of water (attach analysis):

E. Bentonite seal, top _____ ft. MSL or 1.00 ft.
F. Fine sand, top _____ ft. MSL or 2.56 ft.
G. Filter pack, top _____ ft. MSL or 3.56 ft.
H. Screen joint, top _____ ft. MSL or 4.56 ft.
I. Well bottom _____ ft. MSL or 14.56 ft.
J. Filter pack, bottom _____ ft. MSL or 14.56 ft.
K. Borehole, bottom _____ ft. MSL or 14.56 ft.
L. Borehole, diameter 8 in.
M. O.D. well casing 2.1 in.
N. I.D. well casing 1.9 in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☒ 04
Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30
Concrete ☒ 01
Other ☐
4. Material between well casing and protective pipe: Bentonite ☒ 30
Annular space seal ☐
Other ☐
5. Annular space seal: a. Granular Bentonite ☒ 33
b. _____ Lbs/gal mud weight Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight Bentonite slurry ☐ 31
d. _____ % Bentonite Bentonite-cement grout ☐ 50
e. 0.510 ft³ Volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☒ 08
6. Bentonite seal: a. Bentonite Granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32
c. _____ Other ☐
7. Fine sand material Manufacturer, product name and mesh size
a. #60 Red Flint
b. Volume added 0.327 ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. #30 Red Flint
b. Volume added 3.27 ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer U.S. Filter
c. Slot size: _____ in.
d. Slotted length: 10 ft.
11. Backfill material (below filter Pack): None ☒ 14
Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature

Firm

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4080 N. 20th Ave.
Wausau, WI 54401

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Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility/Project Name Tower Standard	Local Grid Location of Well Feet S. Feet W. Feet N. Feet E	Well Name MW-17 at 35-40ft
Facility License Permit or Monitoring Number	Grid Origin Location	Wis. Unique Well Number DNR Well Number
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	Section Location of Waste/Source <input checked="" type="checkbox"/> E	Date Well Installed 11/4/15
Distance Well Is From Waste/Source Boundary Ft.	SE 1/4 of SW 1/4 of Sec. 30, T. 40 N, R. 05 <input type="checkbox"/> W	Well Installed By (Person's Name and Firm) GESTRA - Bryan
Is Well A Point of Enforcement Std. Application <input type="checkbox"/> Yes <input type="checkbox"/> No	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS Classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☒ Yes ☐ No
Describe 30 Gallons Water Added

17. Source of water (attach analysis):
City of Milwaukee

E. Bentonite seal, top _____ ft. MSL or 1.00 ft.

F. Fine sand, top _____ ft. MSL or 27.6 ft.

G. Filter pack, top _____ ft. MSL or 28.1 ft.

H. Screen joint, top _____ ft. MSL or 30.6 ft.

I. Well bottom _____ ft. MSL or 35.6 ft.

J. Filter pack, bottom _____ ft. MSL or 36.00 ft.

K. Borehole, bottom _____ ft. MSL or 36.00 ft.

L. Borehole, diameter 8 in.

M. O.D. well casing 2.1 in.

N. I.D. well casing 1.9 in.

1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☒ 04
Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 30
Concrete ☒ 01
Other ☐

4. Material between well casing and protective pipe:
Bentonite ☒ 30
Annular space seal ☐
Other ☐ 12 bags

5. Annular space seal: a. Granular Bentonite ☒ 33
b. _____ Lbs/gal mud weight Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight Bentonite slurry ☐ 31
d. 5 % Bentonite Bentonite-cement grout ☒ 50
e. 8.02 ft³ Volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☒ 02
Gravity ☐ 08

6. Bentonite seal: a. Bentonite Granules ☐ 33
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 32
c. Bentonite Grout ☒

7. Fine sand material Manufacturer, product name and mesh size
a. #15 Red Flint
b. Volume added 0.164 ft³

8. Filter pack material: Manufacturer, product name and mesh size
a. #40 Red Flint
b. Volume added 0.491 ft³

9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐

10. Screen material: PVC
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer Johnson Screen
c. Slot size: _____ in.
d. Slotted length: 5 ft.

11. Backfill material (below filter Pack): None ☒ 14
Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature

Firm

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4080 N. 20th Ave.
Wausau, WI 54401

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Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility/Project Name Tower Standard	Local Grid Location of Well Feet S. _____ Feet W. _____ Feet N. _____ Feet E. _____	Well Name MW-18
Facility License Permit or Monitoring Number	Grid Origin Location	Wis. Unique Well Number _____ DNR Well Number _____
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	Section Location of Waste/Source <input checked="" type="checkbox"/> E	Date Well Installed 11/3/15
Distance Well Is From Waste/Source Boundary Ft. _____	SE 1/4 of SW 1/4 of Sec. 30, T. 40 N, R. 05 W	Well Installed By (Person's Name and Firm) PSI - Joe Black
Is Well A Point of Enforcement Std. Application <input type="checkbox"/> Yes <input type="checkbox"/> No	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No

Describe _____

17. Source of water (attach analysis):

E. Bentonite seal, top _____ ft. MSL or 0 ft.
F. Fine sand, top _____ ft. MSL or 5.41 ft.
G. Filter pack, top _____ ft. MSL or 6.41 ft.
H. Screen joint, top _____ ft. MSL or 7.41 ft.
I. Well bottom _____ ft. MSL or 17.41 ft.
J. Filter pack, bottom _____ ft. MSL or 17.41 ft.
K. Borehole, bottom _____ ft. MSL or 17.41 ft.
L. Borehole, diameter 8 in.
M. O.D. well casing 2.1 in.
N. I.D. well casing 1.9 in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☒ 04
Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30
Concrete ☒ 01
Other ☐
4. Material between well casing and protective pipe: Bentonite ☒ 30
Annular space seal ☐
Other ☐
5. Annular space seal: a. Granular Bentonite ☒ 33
b. _____ Lbs/gal mud weight _____ Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight _____ Bentonite slurry ☐ 31
d. _____ % Bentonite _____ Bentonite-cement grout ☐ 50
e. 1.769 ft³ Volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☒ 08
6. Bentonite seal: a. Bentonite Granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32
c. _____ Other ☐
7. Fine sand material Manufacturer, product name and mesh size
a. #60 Red Flint
b. Volume added 0.327 ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. #30 Red Flint
b. Volume added 3.27 ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer U.S. Filter
c. Slot size: _____ in.
d. Slotted length: 10 ft.
11. Backfill material (below filter Pack): None ☒ 14
Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature

[Signature]

Firm

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Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility/Project Name Tower Standard	Local Grid Location of Well Feet S. Feet W. Feet N. Feet E.	Well Name MW-18 at 35-40ft
Facility License Permit or Monitoring Number	Grid Origin Location	Wis. Unique Well Number DNR Well Number
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 2	Section Location of Waste/Source <input checked="" type="checkbox"/> E	Date Well Installed 11/5/15
Distance Well Is From Waste/Source Boundary Ft.	SE 1/4 of SW 1/4 of Sec. 30, T. 40 N; R. 05 <input type="checkbox"/> W	Well Installed By (Person's Name and Firm) GESTRA - Bryan
Is Well A Point of Enforcement Std. Application <input type="checkbox"/> Yes <input type="checkbox"/> No	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

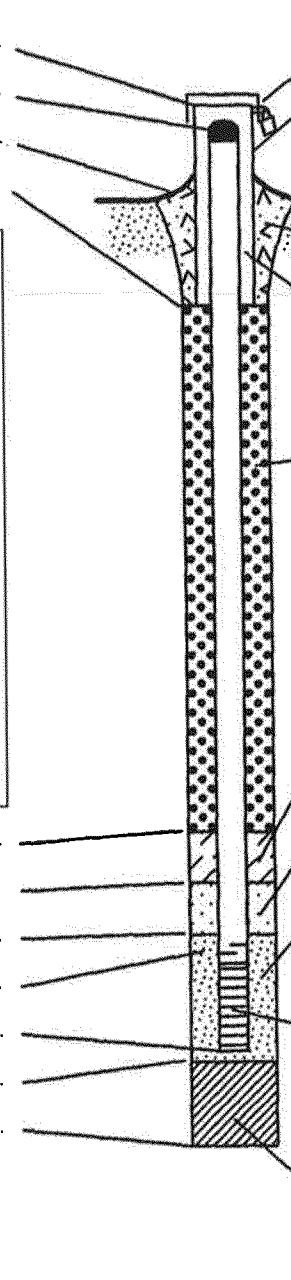
14. Drilling method used Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☒ Yes ☐ No
Describe 40 Gallons Water Added

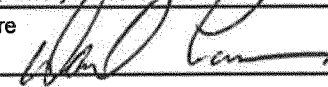
17. Source of water (attach analysis):
Town of Minocqua

E. Bentonite seal, top _____ ft. MSL or 0 ft.
F. Fine sand, top _____ ft. MSL or 31.50 ft.
G. Filter pack, top _____ ft. MSL or 32.00 ft.
H. Screen joint, top _____ ft. MSL or 34.00 ft.
I. Well bottom _____ ft. MSL or 39.00 ft.
J. Filter pack, bottom _____ ft. MSL or 40.00 ft.
K. Borehole, bottom _____ ft. MSL or 40.00 ft.
L. Borehole, diameter 8 in.
M. O.D. well casing 2.1 in.
N. I.D. well casing 1.9 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☒ 04
Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30
Concrete ☐ 01
Other ☐
4. Material between well casing and protective pipe: Bentonite ☒ 30
Annular space seal ☐
Other ☐
6 bags
5. Annular space seal: a. Granular Bentonite ☒ 33
b. _____ lbs/gal mud weight Bentonite-sand slurry ☐ 35
c. _____ lbs/gal mud weight Bentonite slurry ☐ 31
d. 5 % Bentonite Bentonite-cement grout ☒ 50
e. 8.69 ft³ Volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☒ 02
Gravity ☐ 08
6. Bentonite seal: a. Bentonite Granules ☐ 33
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 32
c. Bentonite Grout ☒ Other ☐
7. Fine sand material Manufacturer, product name and mesh size
a. #15 Red Flint
b. Volume added 2 bags ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. #40 Red Flint
b. Volume added 1/2 bag ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer Johnson Screen
c. Slot size: _____ in.
d. Slotted length: 5 ft.
11. Backfill material (below filter Pack): None ☒ 14
Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge

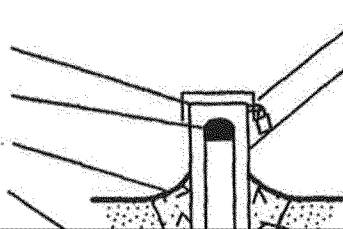
Signature  Firm REI Engineering, Inc.
4080 N. 20th Ave.
Wausau, WI 54401

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Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility/Project Name Tower Standard	Local Grid Location of Well Feet S. ___ Feet W. ___ Feet N. ___ Feet E. ___	Well Name MW-19
Facility License Permit or Monitoring Number	Grid Origin Location	Wis. Unique Well Number DNR Well Number
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 1 Piezometer <input type="checkbox"/> 2	Section Location of Waste/Source <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Date Well Installed 11/3/15
Distance Well Is From Waste/Source Boundary Ft.	SE 1/4 of SW 1/4 of Sec. 30, T. 40 N., R. 05	Well Installed By (Person's Name and Firm) PSI - Joe Black
Is Well A Point of Enforcement Std. Application <input type="checkbox"/> Yes <input type="checkbox"/> No	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☒ 04
Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis)

3. Surface seal: Bentonite ☐ 30
Concrete ☒ 01
Other ☐

4. Material between well casing and protective pipe:
Bentonite ☒ 30
Annular space seal ☐
Other ☐

5. Annular space seal: a. Granular Bentonite ☒ 33
b. _____ lbs/gal mud weight _____ Bentonite-sand slurry ☐ 35
c. _____ lbs/gal mud weight _____ Bentonite slurry ☐ 31
d. _____ % Grout _____ Bentonite-cement grout ☐ 50
e. 1.485 ft³ Volume added for any of the above

f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravily ☒ 08

Bentonite seal: a. Bentonite Granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 32
c. Other ☐

7. Fine sand material Manufacturer, product name and mesh size
a. #60 Red Flint
b. Volume added 0.327 ft³

8. Filter pack material Manufacturer, product name and mesh size
a. #30 Red Flint
b. Volume added 5.27 ft³

9. Well casing: Flush threaded PVC schedule 40 23
Flush threaded PVC schedule 80 24
Other

10. Screen material: PVC
a. Screen type: Factory cut 11
Continuous slot 01
Other

b. Manufacturer U.S. Filter
c. Slot size:
d. Slotted length:

11. Backfill material (below filter pack) None ☒ 14
Other ☐

E. Bentonite seal, top _____ ft. MSL or 0 ft.
F. Fine sand, top _____ ft. MSL or 4.54 ft.
G. Filter pack, top _____ ft. MSL or 5.54 ft.
H. Screen joint, top _____ ft. MSL or 6.54 ft.
I. Well bottom _____ ft. MSL or 16.54 ft.
J. Filter pack, bottom _____ ft. MSL or 16.54 ft.
K. Borehole, bottom _____ ft. MSL or 16.54 ft.
L. Borehole, diameter 8 in.
M. O.D. well casing 2.1 in.
N. I.D. well casing 1.9

on is true and correct to

Signature

Firm

REI Engineering, Inc.
4080 N. 20th Ave.

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Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility/Project Name Tower Standard	Local Grid Location of Well Feet S. ___ Feet W. ___ Feet N. ___ Feet E. ___	Well Name MW-19 at 35-40ft
Facility License Permit or Monitoring Number	Grid Origin Location	Wis. Unique Well Number DNR Well Number
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	Section Location of Waste/Source <input checked="" type="checkbox"/> E	Date Well Installed 11/5/15
Distance Well Is From Waste/Source Boundary Ft.	SE 1/4 of SW 1/4 of Sec. 30, T. 40 N, R. 05 W	Well Installed By (Person's Name and Firm) GESTRA - Bryan
Is Well A Point of Enforcement Std. Application <input type="checkbox"/> Yes <input type="checkbox"/> No	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

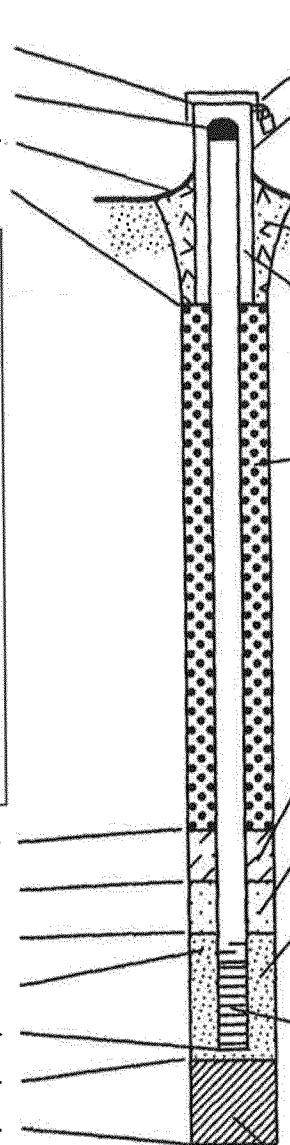
14. Drilling method used Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe 40 Gallons Water Added

17. Source of water (attach analysis):
Town of Minocqua

E. Bentonite seal, top _____ ft. MSL or 0 ft.
F. Fine sand, top _____ ft. MSL or 31.00 ft.
G. Filter pack, top _____ ft. MSL or 33.00 ft.
H. Screen joint, top _____ ft. MSL or 35.00 ft.
I. Well bottom _____ ft. MSL or 40.00 ft.
J. Filter pack, bottom _____ ft. MSL or 40.00 ft.
K. Borehole, bottom _____ ft. MSL or 40.00 ft.
L. Borehole, diameter 8 in.
M. O.D. well casing 2.1 in.
N. I.D. well casing 1.9 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☒ 04
Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30
Concrete ☐ 01
Other ☐
4. Material between well casing and protective pipe: Bentonite ☒ 30
Annular space seal ☐
5 bags
Other ☐
5. Annular space seal: a. Granular Bentonite ☐ 33
b. _____ lbs/gal mud weight _____ Bentonite-sand slurry ☐ 35
c. _____ lbs/gal mud weight _____ Bentonite slurry ☐ 31
d. 5 % Bentonite Bentonite-cement grout ☒ 50
e. 8.69 ft³ Volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☒ 02
Gravity ☐ 08
6. Bentonite seal: a. Bentonite Granules ☐ 33
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 32
c. _____ Other ☐
7. Fine sand material Manufacturer, product name and mesh size
a. #15 Red Flint
b. Volume added 1 bag ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. #40 Red Flint
b. Volume added 1 1/2 bags ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer Johnson Screen
c. Slot size: _____ in.
d. Slotted length: 5 ft.
11. Backfill material (below filter Pack): None ☒ 14
Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature

Firm

REI Engineering, Inc.
4080 N. 20th Ave.
Wausau, WI 54401

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Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility/Project Name Tower Standard	Local Grid Location of Well Feet S. Feet W. Feet N. Feet E	Well Name MW-20
Facility License Permit or Monitoring Number	Grid Origin Location	Wis. Unique Well Number DNR Well Number
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> Piezometer <input type="checkbox"/>	Section Location of Waste/Source <input checked="" type="checkbox"/> SE 1/4 of SW 1/4 of Sec. 30 T. 40 N. R. 05 <input type="checkbox"/>	Date Well Installed 11/3/15
Distance Well Is From Waste/Source Boundary Ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Well Installed By (Person's Name and Firm) PSI - Joe Black
Is Well A Point of Enforcement Std. Application <input type="checkbox"/> Yes <input type="checkbox"/> No		

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No

Describe _____

17. Source of water (attach analysis):

1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☒ 04
Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 30
Concrete ☒ 01
Other ☐

4. Material between well casing and protective pipe:
Bentonite ☒ 30
Annular space seal ☐
Other ☐

5. Annular space seal: a. Granular Bentonite ☒ 33
b. _____ lbs/gal mud weight _____ Bentonite-sand slurry ☐ 35
c. _____ lbs/gal mud weight _____ Bentonite slurry ☐ 31
d. _____ % Bentonite _____ Bentonite-cement grout ☐ 50
e. 0.831 ft³ Volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☒ 08

6. Bentonite seal: a. Bentonite Granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32
c. _____ Other ☐

7. Fine sand material Manufacturer, product name and mesh size
a. #60 Red Flint
b. Volume added 0.327 ft³

8. Filter pack material: Manufacturer, product name and mesh size
a. #30 Red Flint
b. Volume added 3.27 ft³

9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 60 ☐ 24
Other ☐

10. Screen material PVC
a. Screen type: Factory cut ☐ 11
Continuous slot ☐ 01
Other ☐

b. Manufacturer U.S. Filter
c. Slot size: _____ in.
d. Slotted length: 10 ft.

11. Backfill material (below filter pack) None ☒ 14
Other ☐

E. Bentonite seal, top _____ ft. MSL or 0 ft.

F. Fine sand, top _____ ft. MSL or 2.54 ft.

G. Filter pack, top _____ ft. MSL or 3.34 ft.

H. Screen joint, top _____ ft. MSL or 4.54 ft.

I. Well bottom _____ ft. MSL or 14.54 ft.

J. Filter pack, bottom _____ ft. MSL or 14.54 ft.

K. Borehole, bottom _____ ft. MSL or 14.54 ft.

L. Borehole, diameter 8 in.

M. O.D. well casing 2.1 in.

N. I.D. well casing 1.9 in.

on this form is true and correct to

Signature

Firm

REI Engineering, Inc.
4080 N. 20th Ave.

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Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility/Project Name Tower Standard	Local Grid Location of Well Feet S. Feet W. Feet N. Feet E	Well Name MW-20 at 20-25ft
Facility License Permit or Monitoring Number	Grid Origin Location	Wis. Unique Well Number DNR Well Number
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 2	Section Location of Waste/Source <input checked="" type="checkbox"/> E	Date Well Installed 11/2/15
Distance Well Is From Waste/Source Boundary Ft.	SE 1/4 of SW 1/4 of Sec. 30 T. 40 N. R. 05 <input type="checkbox"/> W	Well Installed By (Person's Name and Firm) GESTRA - Bryan
Is Well A Point of Enforcement Std. Application <input type="checkbox"/> Yes <input type="checkbox"/> No	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis):

E. Bentonite seal, top _____ ft. MSL or 1.00 ft.
F. Fine sand, top _____ ft. MSL or 16.00 ft.
G. Filter pack, top _____ ft. MSL or 18.00 ft.
H. Screen joint, top _____ ft. MSL or 20.00 ft.
I. Well bottom _____ ft. MSL or 25.00 ft.
J. Filter pack, bottom _____ ft. MSL or 25.00 ft.
K. Borehole, bottom _____ ft. MSL or 25.00 ft.
L. Borehole, diameter 8 in.
M. O.D. well casing 2.1 in.
N. I.D. well casing 1.9 in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☒ 04
Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30
Concrete ☒ 01
Other ☐
4. Material between well casing and protective pipe: Bentonite ☒ 30
Annular space seal ☐
Other ☐
5. Annular space seal: a. Granular Bentonite ☒ 33
b. _____ Lbs/gal mud weight Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight Bentonite slurry ☐ 31
d. _____ % Bentonite Bentonite-cement grout ☐ 50
e. 5.225 ft³ Volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☒ 08
6. Bentonite seal: a. Bentonite Granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32
c. _____ Other ☐
7. Fine sand material Manufacturer, product name and mesh size
a. #15 Red Flint
b. Volume added 2 1/2 bags ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. #40 Red Flint
b. Volume added 1/2 bag ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer Johnson Screen
c. Slot size: _____ in.
d. Slotted length: 5 ft.
11. Backfill material (below filter Pack): None ☒ 14
Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____

Firm

REI Engineering, Inc.
4080 N. 20th Ave.
Wausau, WI 54401

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Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility/Project Name Tower Standard	Local Grid Location of Well Feet S. ___ Feet W. ___ Feet N. ___ Feet E. ___	Well Name MW-21
Facility License Permit or Monitoring Number	Grid Origin Location	Wis. Unique Well Number DNR Well Number
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 1 Piezometer <input type="checkbox"/> 2	Section Location of Waste/Source <input checked="" type="checkbox"/> B	Date Well Installed 11/3/15
Distance Well Is From Waste/Source Boundary Ft.	Location of Well Relative to Waste/Source SE 1/4 of SW 1/4 of Sec. 30, T. 40 N., R. 05 W. <input type="checkbox"/>	Well Installed By (Person's Name and Firm) PSI - Joe Black
Is Well A Point of Enforcement Std. Application <input type="checkbox"/> Yes <input type="checkbox"/> No	u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used
Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis):

E. Bentonite seal, top _____ ft. MSL or 0 ft.
F. Fine sand, top _____ ft. MSL or 2.55 ft.
G. Filter pack, top _____ ft. MSL or 3.55 ft.
H. Screen joint, top _____ ft. MSL or 4.55 ft.
I. Well bottom _____ ft. MSL or 14.55 ft.
J. Filter pack, bottom _____ ft. MSL or 14.55 ft.
K. Borehole, bottom _____ ft. MSL or 14.55 ft.
L. Borehole, diameter 8 in.
M. O.D. well casing 2.1 in.
N. I.D. well casing 1.9 in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☒ 04
Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30
Concrete ☒ 01
Other ☐
4. Material between well casing and protective pipe: Bentonite ☒ 30
Annular space seal ☐
Other ☐
5. Annular space seal:
a. Granular Bentonite ☒ 33
b. _____ lbs/gal mud weight Bentonite-sand slurry ☐ 35
c. _____ lbs/gal mud weight Bentonite slurry ☐ 31
d. _____ % Bentonite Bentonite-cement grout ☐ 50
e. 0.834 ft³ Volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☒ 08
6. Bentonite seal:
a. Bentonite Granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32
c. _____ Other ☐
7. Fine sand material Manufacturer, product name and mesh size
a. #60 Red Flint
b. Volume added 0.327 ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. #30 Red Flint
b. Volume added 3.27 ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer U.S. Filter
c. Slot size: _____ in.
d. Slotted length: 10 ft.
11. Backfill material (below filter Pack): None ☒ 14
Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature

Firm

REI E. Ins. Ring, Inc.
4080 N.

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160 Wis. Stats. and ch. NR 141, Wis. Ad. Code. In accordance with ch. 144 Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147 Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility/Project Name Tower Standard	Local Grid Location of Well Feet S. Feet W. Feet N. Feet E	Well Name MW-21 at 35-40ft
Facility License Permit or Monitoring Number	Grid Origin Location	Wis. Unique Well Number DNR Well Number
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 2	Section Location of Waste/Source <input checked="" type="checkbox"/> E	Date Well Installed 11/5/15
Distance Well Is From Waste/Source Boundary Ft.	SE 1/4 of SW 1/4 of Sec. 30 T. 40 N. R. 05 <input type="checkbox"/> W	Well Installed By (Person's Name and Firm) GESTRA - Bryan
Is Well A Point of Enforcement Std. Application <input type="checkbox"/> Yes <input type="checkbox"/> No	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

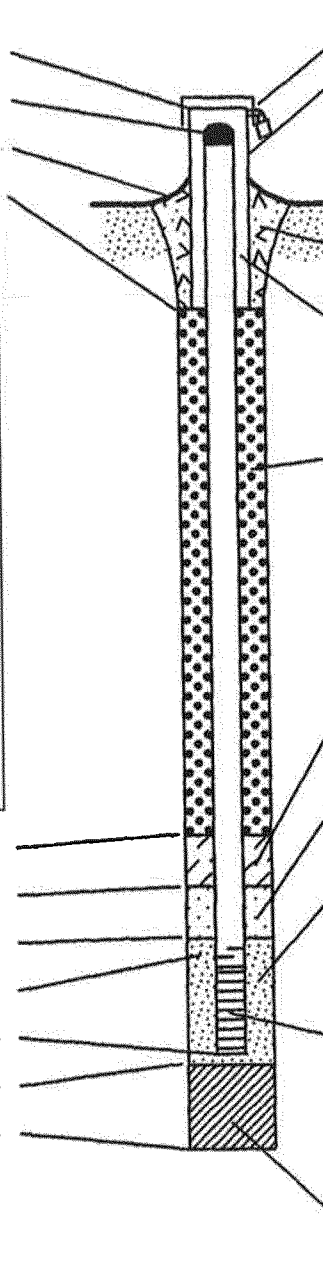
14. Drilling method used Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☒ Yes ☐ No
Describe 45 Gallons Water Added

17. Source of water (attach analysis):
City of Minocqua

E. Bentonite seal, top _____ ft. MSL or 1.00 ft.
F. Fine sand, top _____ ft. MSL or 31.00 ft.
G. Filter pack, top _____ ft. MSL or 33.00 ft.
H. Screen joint, top _____ ft. MSL or 35.00 ft.
I. Well bottom _____ ft. MSL or 40.00 ft.
J. Filter pack, bottom _____ ft. MSL or 40.00 ft.
K. Borehole, bottom _____ ft. MSL or 40.00 ft.
L. Borehole, diameter 8 in.
M. O.D. well casing 2.1 in.
N. I.D. well casing 1.9 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☒ 04
Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30
Concrete ☒ 01
Other ☐
4. Material between well casing and protective pipe: Bentonite ☒ 30
Annular space seal ☐
8 bags Other ☐
5. Annular space seal: a. Granular Bentonite ☐ 33
b. _____ lbs/gal mud weight Bentonite-sand slurry ☐ 35
c. _____ lbs/gal mud weight Bentonite slurry ☐ 31
d. 5 % Bentonite Bentonite-cement grout ☒ 50
e. 8.69 ft³ Volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☒ 02
Gravity ☐ 08
6. Bentonite seal: a. Bentonite Granules ☐ 33
b. ☐ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite pellets ☐ 32
c. Other ☐
7. Fine sand material Manufacturer, product name and mesh size
a. #15 Red Flint
b. Volume added 1 bag ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. #40 Red Flint
b. Volume added 2 1/2 bags ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer Johnson Screen
c. Slot size: _____ in.
d. Slotted length: 5 ft.
11. Backfill material (below filter Pack): None ☒ 14
Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature

Firm

REI Engineering, Inc.
4080 N. 20th Ave.
Wausau, WI 54401

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Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility/Project Name Tower Standard	Local Grid Location of Well Feet S. Feet W. Feet N. Feet E	Well Name MW-22
Facility License Permit or Monitoring Number	Grid Origin Location	Wis. Unique Well Number DNR Well Number
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 2	Section Location of Waste/Source <input checked="" type="checkbox"/> E	Date Well Installed 11/4/15
Distance Well Is From Waste/Source Boundary Ft.	SE 1/4 of SW 1/4 of Sec. 30 T. 40 N. R. 05 <input type="checkbox"/> W	Well Installed By (Person's Name and Firm) PSI - Joe Black
Is Well A Point of Enforcement Std. Application <input type="checkbox"/> Yes <input type="checkbox"/> No	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis):

E. Bentonite seal, top _____ ft. MSL or 0 ft.
F. Fine sand, top _____ ft. MSL or 2.46 ft.
G. Filter pack, top _____ ft. MSL or 3.46 ft.
H. Screen joint, top _____ ft. MSL or 4.46 ft.
I. Well bottom _____ ft. MSL or 14.46 ft.
J. Filter pack, bottom _____ ft. MSL or 14.46 ft.
K. Borehole, bottom _____ ft. MSL or 14.46 ft.
L. Borehole, diameter 8 in.
M. O.D. well casing 2.1 in.
N. I.D. well casing 1.9 in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☒ 04
Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30
Concrete ☒ 01
Other ☐
4. Material between well casing and protective pipe: Bentonite ☒ 30
Annular space seal ☐
Other ☐
5. Annular space seal: a. Granular Bentonite ☒ 33
b. _____ Lbs/gal mud weight Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight Bentonite slurry ☐ 31
d. _____ % Bentonite Bentonite-cement grout ☐ 50
e. 0.804 ft³ Volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☒ 08
6. Bentonite seal: a. Bentonite Granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32
c. _____ Other ☐
7. Fine sand material Manufacturer, product name and mesh size
a. #60 Red Flint
b. Volume added 0.327 ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. #30 Red Flint
b. Volume added 3.27 ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer U.S. Filter
c. Slot size: _____ in.
d. Slotted length: 10 ft.
11. Backfill material (below filter Pack): None ☒ 14
Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature _____

Firm

REI Engineering, Inc.
4080 N. 20th Ave.
Wausau, WI 54401

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Route To Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☐ Other ☐

Facility/Project Name Tower Standard	Local Grid Location of Well Feet S. Feet W. Feet N. Feet E.	Well Name MW-22 at 35-40ft
Facility License Permit or Monitoring Number	Grid Origin Location	Wis. Unique Well Number DNR Well Number
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> If Piezometer <input type="checkbox"/> 2	Section Location of Waste/Source <input checked="" type="checkbox"/> E	Date Well Installed 11/3/15
Distance Well Is From Waste/Source Boundary Ft.	SE 1/4 of SW 1/4 of Sec. 30 T. 40 N. R. 05 <input type="checkbox"/> W	Well Installed By (Person's Name and Firm) GESTRA - Bryan
Is Well A Point of Enforcement Std. Application <input type="checkbox"/> Yes <input type="checkbox"/> No	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS Classification of soil near screen:

GP ☐ GM ☐ GC ☐ GW ☐ SW ☒ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis attached? ☐ Yes ☒ No

14. Drilling method used Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No

Describe _____

17. Source of water (attach analysis):

E. Bentonite seal, top _____ ft. MSL or 1.00 ft.
F. Fine sand, top _____ ft. MSL or 30.5 ft.
G. Filter pack, top _____ ft. MSL or 32.5 ft.
H. Screen joint, top _____ ft. MSL or 34.5 ft.
I. Well bottom _____ ft. MSL or 39.5 ft.
J. Filter pack, bottom _____ ft. MSL or 40.00 ft.
K. Borehole, bottom _____ ft. MSL or 40.00 ft.
L. Borehole, diameter 8 in.
M. O.D. well casing 2.1 in.
N. I.D. well casing 1.9 in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☒ 04
Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30
Concrete ☒ 01
Other ☐
4. Material between well casing and protective pipe: Bentonite ☒ 30
Annular space seal ☐
Other ☐
5. Annular space seal: a. Granular Bentonite ☒ 33
b. _____ Lbs/gal mud weight _____ Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight _____ Bentonite slurry ☐ 31
d. _____ % Bentonite _____ Bentonite-cement grout ☐ 50
e. 9.647 ft³ Volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☒ 08
6. Bentonite seal: a. Bentonite Granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite pellets ☒ 32
c. _____ Other ☐
7. Fine sand material Manufacturer, product name and mesh size
a. #15 Red Flint
b. Volume added 1 bag ft³
8. Filter pack material: Manufacturer, product name and mesh size
a. #40 Red Flint
b. Volume added 2 bags ft³
9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐
b. Manufacturer Johnson Screen
c. Slot size: _____ in.
d. Slotted length: 5 ft.
11. Backfill material (below filter Pack): None ☒ 14
Other ☐

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